- 6 9. (Previously Cancelled)
- 10. (Cancel)
- 11 50. (Previously Cancelled)
- 51 59. (Cancel)
- 60. (Newly Added) An isolated and purified nucleic acid segment encoding a hyaluronate synthase, wherein the isolated and purified nucleic acid segment comprises the nucleic acid segment of SEQ ID NO:1.
- 61. (Newly Added) A recombinant expression vector comprising the nucleic acid segment of claim 1.
- 62. (Newly Added) The recombinant expression vector of claim 61, wherein the recombinant expression vector is a plasmid.
- 63. (Newly Added) The recombinant expression vector of claim 61, wherein the recombinant expression vector is an expression vector having a promoter operatively linked to the nucleic acid segment of claim 1.

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64. (Newly Added) The recombinant expression vector of any of claims 61, 62 and 63, placed in a recombinant strain of *Bacillus* or *Escherichia* or *Enterococcus*.

- 65. (Newly added) The recombinant expression vector of claim 64 wherein the recombinant strain of *Bacillus* is selected from the group consisting of *Bacillus subtilis*, *Bacillus licheniformis*, *Bacillus thuringiensis*.
- 66. (Newly Added) A recombinant expression vector comprising the nucleic acid segment of claim 60.
- 67. (Newly Added) The recombinant expression vector of claim 66, wherein the recombinant expression vector is a plasmid.
- 68. (Newly Added) The recombinant expression vector of claim 66, wherein the recombinant expression vector is an expression vector having a promoter operatively linked to the nucleic acid segment of claim 1.

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69. (Newly Added) The recombinant expression vector of any of claims 67, 68 and 69, placed in a recombinant strain of Bacillus or Escherichia or Enterococcus.

- 70. (Newly added) The recombinant expression vector of claim 69 wherein the recombinant strain of *Bacillus* is selected from the group consisting of *Bacillus subtilis*, *Bacillus licheniformis*, *Bacillus thuringiensis*.
- 71. (Newly added) The recombinant expression vector of claims 63 or 68, wherein the promoter is a heterologous promoter.
- 72. (Newly added) The recombinant expression vector placed in a recombinant strain of *Bacillus* or *Escherichia* or *Enterococcus* of claims 64 and 69 wherein the strain of *Bacillus* or *Escherichia* or *Enterococcus* having the recombinant expression vector therein is capable of producing hyaluronic acid.